

a first gas conduit having an opening adapted for gas connection with a patient's airways and a bias gas flow inlet and a bias flow outlet disposed to define therebetween a flow path for a bias gas within the first conduit;

an oscillator for inducing pressure oscillations in gas within the first conduit to move said gas along a path intersecting the flow path for a bias gas alternately into and out of the opening at a predetermined high-frequency, said oscillator comprising an arrangement for alternately introducing a volume of additional gas, in addition to said bias_gas into and withdrawing at least the volume of gas from the first gas conduit to induce the pressure oscillations.

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Applicants also herewith submit a "clean" copy of claim 2, embodying the handwritten material initialed and dated by the inventors. (THIS IS NOT AN AMENDMENT OF CLAIM 2 SINCE THE HANDWRITTEN CHANGES CONSTITUTE "ORIGINAL" LANGUAGE OF CLAIM 2 AS FILED.)

2. An HFO ventilator as claimed in claim 1 wherein said arrangement in the oscillator is disposed to introduce the volume of additional gas into the first gas conduit to intersect the bias flow path at a location proximal the opening.